

**APPENDIX A IMPLEMENTATION SCHEDULE OF THE PROPOSED MITIGATION MEASURES**

**Appendix A1 Implementation Schedule for Noise Control**

EIA Ref #	EM&A Ref	Environmental Mitigation Measures	Protection Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
						Des	C	O	Dec	
<b>Construction Phase</b>										
3.8.1	2.8.1	<p>Good site practice and management can significantly reduce the noise impact of construction site activities on nearby NSRs</p> <ul style="list-style-type: none"> <li>only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction works;</li> <li>machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;</li> <li>plant known to emit noise strongly in one direction should, where possible, be orientated to direct noise away from the NSRs;</li> <li>mobile plant should be sited as far away from NSRs as possible; and</li> <li>material stockpiles and other structures should be effectively utilized, where practicable, to screen noise from on-site construction activities.</li> </ul>		Works Sites / During Construction Phase	Contractor		√			EIAO-TM, NCO
3.8.4	2.8.3	Use of quieter mechanical equipment		Works Sites / During Construction Phase	Contractor		√			EIAO-TM, NCO

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						Des	C	O	Dec	
3-8.9	2-8.4	Provision of movable noise barrier in the vicinity of the following NSRs <ul style="list-style-type: none"> <li>• FEC (Far East Consortium Tuen Mun Central Building)</li> <li>• FM (Forward Mansion)</li> <li>• HTB (Hing Tai Building)</li> <li>• TMTP1 (Tuen Mun Town Plaza)</li> <li>• WG2 (Waldorf Garden)</li> <li>• CMA (CMA Choi Cheung Kok Secondary School)</li> <li>• LWF (Yan Oi Tong Madam Lau Wong Fat Primary School)</li> <li>• TMF (Tuen Mun Fa Yuen)</li> <li>• LCK (Lui Cheung Kwong Lutheran College)</li> <li>• CLFY1 (Chi Lok Fa Yuen)</li> <li>• TFH (On Ting Estate (Ting Fuk House))</li> <li>• LCKP (Lui Cheung Kwong Lutheran Primary School)</li> <li>• TTP (Tung Wah Group of Hospitals Tai Tung Pui Social Service Building)</li> <li>• CSBS (CSBS Mrs. Aw Boon Haw Secondary School)</li> <li>• KFG3D (Kam Fai Garden)</li> </ul>		Works Sites from the listed NSRs / During Construction Phase	Contractor		√			EIAO-TM, NCO

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3-8.12	2-8.5	<p>Site clearance and the following activities not to be undertaken in the vicinity of the NSR LCK so as to reduce construction noise impact during normal teaching hours.</p> <ul style="list-style-type: none"> <li>truck would not operate concurrently with other PMEs during tree transplanting and noise barrier foundation work.</li> <li>tree transplanting would not be undertaken concurrently with bulk excavation and utilities diversion.</li> <li>construction of storm water drain would not be undertaken concurrently with noise barrier/enclosure foundation.</li> <li>construction of sub-base and road base would not be undertaken concurrently with noise barrier/enclosure installation.</li> <li>road surfacing, construction of road kerbs, central dividers, parapets, and installation of crash cushion and sign gantry would not be undertaken concurrently.</li> <li>installation of gantry and directional lighting, and street lighting would not be undertaken concurrently.</li> </ul>		<p>Work site in the vicinity of Lui Cheung Kwong Lutheran College (LCK) / Stage 2 (Ch. 28050 – 28200 of TMR) during Construction Phase</p>	Contractor		√			EIAO-TM

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3.8.13	2.8.6	Liaise with all the relevant schools to check out their examination periods and activities in the beginning of the work programme in order to make good planning and arrangement of works and provide sufficient mitigation plans to alleviate noise impacts.		CMA Cheung Kok Secondary School (GMA), Yan Oi Tong Madam Wong Primary School (LWF), Cheung Kwong Lutheran College (LCK), Cheung Kwong Lutheran Primary School (LCKP) and CSBS Mrs. Aw Boon Haw Secondary School (CSBS) / During Construction Phase	Contractor		√			EIAO-TM, NCO
<b>Operational Phase</b>										
Figure 3.3A	-	About 104m long of a 6m high semi-enclosure projecting to 4m from central divider on the Kowloon bound of TMR		Kowloon bound of TMR in front of Rose Dale Garden / Before commencement of operation of road project	HyD			√		EIAO-TM

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Figure 3.3A	-	About 82m long of Kowloon bound of TMR	About 8m high full enclosure on Kowloon bound of TMR	Kowloon bound of TMR in front of Fast East Consortium Tuen Mun Building / Before commencement of operation of road project	HyD			√		EIAO-TM
Figure 3.3A	-	About 82m long of TMR at central divider	About 8m high cantilevered barrier with 7m cantilever inclined at 90° on Yuen Long bound of TMR	Central divider of TMR in front of Fast East Consortium Tuen Mun Building / Before commencement of operation of road project	HyD			√		EIAO-TM
Figure 3.3A	-	About 60m long of TMR	About 8m high cantilevered barrier with 4.5m cantilever at 90° on Kowloon bound of TMR	Kowloon bound of TMR in front of Orchid Court / Before commencement of operation of road project	HyD			√		EIAO-TM
Figure 3.3A	-	About 48m long of road leaving Tuen Mun Road on Kowloon bound of TMR	About 6m high full-enclosure on slip road leaving Tuen Mun Road in front of Orchid Court	Slip road leaving Tuen Mun Road in front of Orchid Court / Before commencement of operation of road project	HyD			√		EIAO-TM

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Figure 3.3A	-	(i) About 60m long of 8m high cantilevered barrier with 3m cantilever at 90° along the left hand side of Yuen Long Bound. (ii) About 60m long 8m high cantilevered barrier with cantilever at 90° (varied in length) erected in central divider (iii) With 6m opening on the top at Yuen Long Bound of TMR between cantilever barriers (i) and (ii)		Yuen Long bound of TMR in front of Forward Mansion / Before commencement of operation of road project	HyD			√		
Figure 3.3A	-	About 82m long of full-enclosure with height decrease from 8m to 6m gradually to merge with Pui To Road on TMR		TMR in front of Man Shing Building / Before commencement of operation of road project	HyD			√		
Figure 3.3A	-	About 73m long of 6m high full-enclosure on TMR		TMR in front of Tuen Mun Town Plaza Block 2 / Before commencement of operation of road project	HyD			√		
Figure 3.3A	-	About 14m long of 6m high semi-enclosure on Kowloon bound of TMR to cover Yuen Long Bound		Kowloon bound of TMR in front of the junction of Tuen Lung Street and TMR / Before commencement of operation of road project	HyD			√		

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Figure 3.3A	-	About 63m long of 6m high semi-enclosure on Kowloon bound of TMR projected to 4m from central divider		Kowloon bound of TMR in front of Tuen Mun Town Plaza Block 3 / Before commencement of operation of road project	HyD			√		
Figure 3.3B	-	About 160m long of 8m high cantilevered barrier with 4.5m cantilever inclined at 90° on Kowloon bound of TMR		Kowloon bound of TMR in front of Waldorf Garden Block 2 / Before commencement of operation of road project	HyD			√		
Figure 3.3B	-	About 60m long of 8m high cantilevered barrier with 4m cantilever inclined at 90° to both side erected at central divider		Central Divider of TMR in front of Waldorf Garden Block 2 / Before commencement of operation of road project	HyD			√		
Figure 3.3B	-	About 60m long of 8m high cantilevered barrier with 4m cantilever at 90° on Yuen Long bound of TMR		Yuen Long bound of TMR in front of Waldorf Garden Block 2 / Before commencement of operation of road project	HyD			√		

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Figure 3.3B	-	About 100m long of 8m high semi-enclosure on Yuen Long Bound of TMR		Yuen Long Bound of TMR in front of Waldorf Garden Block 5 / Before commencement of operation of road project	HyD			√		
Figure 3.3B	-	About 21m long of 8m high semi-enclosure projected from the road kerb of Kowloon bound to 10m from central divider to Yuen Long Bound of TMR		Kowloon bound of TMR in front of New Town Mansion Block B / Before commencement of operation of road project	HyD			√		
Figure 3.3B	-	About 22m long of 8m high cantilevered barrier with cantilever inclined at 90° projected to the road kerb of Kowloon bound and 10m from the central divider to Yuen Long Bound of TMR		Central divider of TMR in front of New Town Mansion/ Before commencement of operation of road project	HyD			√		
Figure 3.3B	-	About 26m long of 8m high semi-enclosure projected from the road kerb of Kowloon bound to 10m from the central divider to Yuen Long Bound of TMR		Kowloon bound of TMR in front of New Town Mansion Block A / Before commencement of operation of road project	HyD			√		



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Figure 3.3B	-	About 175m long of 8m high full-enclosure on TMR		TMR in front of Siu On Court / Before commencement of operation of road project	HyD			√		
Figure 3.3B	-	About 83m long of 8m high full-enclosure on slip road entering TMR in front of CMA Choi Cheung Kok Secondary School		Slip road entering Tuen Mun Road in front of CMA Choi Cheung Kok Secondary School / Before commencement of operation of road project	HyD			√		
Figure 3.3B	-	About 100m long of 8m high cantilevered barrier with 3.5m cantilever inclined at 90° on Kowloon bound of TMR		Kowloon bound of TMR in front of Lee Bo Building / Before commencement of operation of road project	HyD			√		
Figure 3.3B	-	About 100m long of 8m high cantilevered barrier with 4m cantilever inclined at 90° on Yuen Long bound of TMR		Yuen Long bound of TMR in front of Lee Bo Building / Before commencement of operation of road project	HyD			√		

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Figure 3.3B	-	About 100m long of 8m high cantilevered barrier with 6m cantilever at 90° to Yuen Long Bound erected at central divider		Central divider of TMR in front of Lee Bo Building / Before commencement of operation of road project	HyD			√		
Figure 3.3B	-	About 78m long of 8m high full-enclosure on TMR		TMR in front of Chi Lok Fa Yuen Block 3 / Before commencement of operation of road project	HyD			√		
Figures 3.3B – 3.3C	-	About 95m long of 8m high semi-enclosure from the road kerb of Yuen Long bound of TMR project to 7m from the central divider to Kowloon Bound of TMR		Yuen Long bound of TMR in front of Chi Lok Fa Yuen Block 5 / Before commencement of operation of road project	HyD			√		
Figures 3.3B – 3.3C	-	About 97m long of 5.5 m high cantilevered barrier with 4m cantilever inclined at 45° on the slip road leaving TMR in front of Chi Lok Fa Yuen Block 5		The slip road leaving TMR in front of Chi Lok Fa Yuen Block 5 / Before commencement of operation of road project	HyD			√		

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Figure 3.3C	-	About 315m long of cantilevered barrier with 45° on the new slip road in front of Garden	5.5 m high absorptive barrier with 4m cantilever inclined at 45° on the new slip road in front of Hong King Garden	The new slip road in front of Hong King Garden / Before commencement of operation of road project	HyD			√		
Figures 3.3B – 3.3C	-	About 122m long of the slip road entering Kwong Lutheran Primary School	6m high semi-enclosure on TMR in front of Lui Cheung Kwong Lutheran Primary School / Before commencement of operation of road project	Slip road entering TMR in front of Lui Cheung Kwong Lutheran Primary School / Before commencement of operation of road project	HyD			√		
Figures 3.3B – 3.3C	-	About 40m long of the new slip road in front of Block 5	vertical panel to fill the gap under the new slip road in front of Chi Lok Fa Yuen	Under the new slip road in front of Chi Lok Fa Yuen / Before commencement of operation of road project	HyD			√		
Figures 3.3B – 3.3C	-	About 160m long of barrier under the new slip road in front of Wah Soccer Pitch and Kowloon Bound of TMR	5m high absorptive vertical barrier under the new slip road in front of Tsing Wah Soccer Pitch and on the road kerb of Kowloon Bound of TMR	Under the new slip road in front of Tsing Wah Soccer Pitch and on the road kerb of TMR / Before commencement of operation of road project	HyD			√		

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Figure 3.3C	-	About 91m long of 5.5 m high absorptive cantilevered barrier with 4m cantilever inclined at 45° on Yuen Long Bound of TMR		Yuen Long bound of TMR in front of King Garden / Before commencement of operation of road project	HyD			√		
Figure 3.3C	-	About 140m long of 5.5 m high absorptive cantilevered barrier with 4m cantilever inclined at 45° on Yuen Long bound of TMR at central divider		Central divider on Yuen Long bound of TMR in front of King Garden / Before commencement of operation of road project	HyD			√		
Figure 3.3C	-	About 114m long of 6m high full-enclosure with absorptive panels on Kowloon bound of TMR		Kowloon bound of TMR in front of CSBS Mrs. Aw Boon Haw Secondary School / Before commencement of operation of road project	HyD			√		

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Figure 3.3C	-	About 114m long of 6m high cantilevered barrier with 6m cantilever inclined at 90° on Yuen Long bound of TMR at central divider		Yuen Long bound of TMR in front of CSBS Mrs. Aw Boon Haw Secondary School / Before commencement of operation of road project	HyD			√		
Figure 3.3C	-	About 180m long of 8m high full-enclosure on the Kowloon bound of TMR, 30m absorptive panel should be applied at central divider from the Tuen Mun end		Kowloon bound of TMR in front of Kam Fai Garden / Before commencement of operation of road project	HyD			√		

# All recommendations and requirements resulted during the course of EIA Process, including ACE and / or accepted public comment to the proposed project.

\* Des - Design, C - Construction, O – Operation, and Dec – Decommissioning

**Appendix A.2 Implementation Schedule for Air Quality Control**

EIA Ref #	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
					Des	C	O	Dec	
4.8.1	3.11.2	<p><b>Construction Phase</b></p> <p>Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation.</p> <ul style="list-style-type: none"> <li>• skip hoist for material transport should be totally enclosed by impervious sheeting</li> <li>• every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site</li> <li>• the area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores</li> <li>• where a site boundary adjoins a road, streets or other accessible to the public, hording of not less than 2.4m high from ground level should be provided along the entire length except for a site entrance or exit</li> <li>• every stack of more than 20 bags of cement should be covered entirely by impervious sheeting places in an area sheltered on the top and the 3 sides</li> <li>• all dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet</li> <li>• the height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation</li> </ul>	Works Sites / During Construction Phase	Contractor		√			EIAO-TM

EIA Ref #	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
					Des	C	O	Dec	
		from unloading <ul style="list-style-type: none"> <li>the load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle</li> <li>instigation of an environmental monitoring and auditing program to monitor the construction process in order to enforce controls and modify method of work if dusty conditions arise</li> </ul>							
<b>Operational Phase</b>									
		Nil							

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\* Des - Design, C - Construction, O – Operation, and Dec – Decommissioning

**Appendix A3 Implementation Schedule for Water Quality Control**

EIA Ref #	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
					Des	C	O	Dec	
5.8.2	4.3.2	<p><b>Construction Phase</b></p> <p>Construction run-off and Drainage</p> <ul style="list-style-type: none"> <li>Silt removal facilities such as silt traps or sedimentation facilities should be provided to remove silt particles from runoff to meet the requirements of the TM standards under the WPCO. The design of silt removal facilities should be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures should be inspected monthly and maintained to ensure proper and efficient operation at all times and particularly during rainstorms.</li> <li>Careful programming of the works to minimise surface excavations for the road improvement works during the wet season. If excavation of soil cannot be avoided during the wet season, exposed slope surfaces should be covered by a tarpaulin or other means. Other measures that need to be implemented before, during, and after rainstorms are summarized in ProPECC PN 1/94.</li> <li>Exposed soil surfaces should be protected by paving or fill material as soon as possible to reduce the potential of soil erosion.</li> <li>Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms. These materials should not be placed near water courses.</li> </ul>	Works Sites / During Construction Phase	Contractor	√				ProPECC PN 1/94 WPCO (TM-DSS)



EIA Ref #	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
					Des	C	O	Dec	
5.8.3 5.8.4	4.3.3	<p>General Construction Activities</p> <ul style="list-style-type: none"> <li>Debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering the nearby local stormwater drainage system.</li> <li>Stockpiles of cement and other construction materials should be kept covered when not being used.</li> <li>Oils and fuels should only be used and stored in designated areas which have pollution prevention facilities. All fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event</li> </ul>	Works Sites / During Construction Phase	Contractor		√			ProPECC PN 1/94 WPCO (TM-DSS)
5.8.5	4.3.4	<p>Sewage from Construction Workforce</p> <ul style="list-style-type: none"> <li>Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site. A licensed contractor would be responsible for appropriate disposal and maintenance of these facilities</li> </ul>	Works Sites / During Construction Phase	Contractor		√			WPCO
<b>Operational Phase</b>									
5.8.6	4.3.5	<ul style="list-style-type: none"> <li>The road drainage should be directed through silt traps in the gully inlets to remove silt and grit before entering the public storm water drainage system; and</li> <li>The silt traps should be regularly cleaned and maintained in good working condition.</li> </ul>	Works Sites / During design and operational periods	FEHD/HyD	√		√		WPCO

# All recommendations and requirements resulted during the course of EIA Process, including ACE and / or accepted public comment to the proposed project.

\* Des - Design, C - Construction, O – Operation, and Dec – Decommissioning

**Appendix A4 Implementation Schedule for Waste Management**

EIA Ref #	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
					Des	C	O	Dec	
6.6.1	5.2.2	<p><b>Construction Phase</b></p> <p><i>Good Site Practices</i></p> <ul style="list-style-type: none"> <li>Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.</li> <li>Training of site personnel in proper waste management and chemical waste handling procedures.</li> <li>Provision of sufficient waste disposal points and regular collection for disposal.</li> <li>Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.</li> <li>Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.</li> <li>A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites).</li> </ul>	Works Sites / During Construction Phase	Contractor		√			Waste Ordinance (Cap. 354) Disposal

EIA Ref #	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
					Des	C	O	Dec	
6.6.2	5.2.3	<p><i>Waste Reduction Measures</i></p> <p>Good management and control can prevent the generation of a significant amount of waste. Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include:</p> <ul style="list-style-type: none"> <li>• Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.</li> <li>• Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force.</li> <li>• Any unused chemicals or those with remaining functional capacity shall be recycled.</li> <li>• Use of reusable non-timber formwork to reduce the amount of C&amp;D material.</li> <li>• Prior to disposal of C&amp;D waste, it is recommended that wood, steel and other metals shall be separated for re-use and / or recycling to minimise the quantity of waste to be disposed of to landfill.</li> <li>• Proper storage and site practices to minimise the potential for damage or contamination of construction materials.</li> <li>• Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.</li> </ul>	Works Sites / During Construction Phase	Contractor		√			Waste Disposal Ordinance (Cap. 354)

EIA Ref #	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
					Des	C	O	Dec	
6.6.4	5.2.5	<p><i>Construction and Demolition (C&amp;D) Material</i></p> <ul style="list-style-type: none"> <li>The excavated fill material shall be re-used on-site as backfill material as far as possible.</li> <li>The surplus excavated material should be disposed of at the designated public fill reception facility, as agreed with the Secretary of the Public Fill Committee, for other beneficial uses.</li> <li>C&amp;D waste would require disposal to the designated landfill site.</li> <li>In order to monitor the disposal of C&amp;D materials at the public fill reception facility and landfill and to control fly-tipping, a trip-ticket system should be included. One may make reference to ETWB TCW No. 31/2004 for details.</li> </ul>	Works Sites / During Construction Phase	Contractor		√			Waste Disposal Ordinance (Cap. 354)
6.6.5	5.2.6	<p><i>Chemical Wastes</i></p> <ul style="list-style-type: none"> <li>After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.</li> <li>Spent chemicals should be collected by a licensed collector for disposal at the CWTC or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.</li> </ul>	Works Sites / During Construction Phase	Contractor		√			Waste Disposal (Chemical Waste) Regulation  Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.

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					Des	C	O	Dec	
6.6.6	5.2.7	<p><i>General Refuse</i></p> <ul style="list-style-type: none"> <li>General refuse should be stored in enclosed bins or compaction units separate from C&amp;D material.</li> <li>A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&amp;D material.</li> <li>An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material.</li> </ul>	Works Sites / During Construction Phase	Contractor		√			Public Health and Municipal Services Ordinance (Cap. 132)

# All recommendations and requirements resulted during the course of EIA Process, including ACE and / or accepted public comment to the proposed project.

\* Des - Design, C - Construction, O – Operation, and Dec – Decommissioning

**Appendix A5 Implementation Schedule for Ecology**

EIA Ref #	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
					Des	C	O	Dec	
<b>Construction Phase</b>									
7.9.2	6.2.2	Construction activities should be confined to developed areas of low ecological value, and there should be no direct impact on other habitats within the Study Area.	Works Sites / During Construction Phase	Contractor	√				-
7.9.3	6.2.3	Noise mitigation measures, including installation of noise-emitting construction plant away from egretty, careful scheduling of noisy works with high disturbance impact to avoid breeding season of ardeid species (i.e. mid March to August) to prevent impacts on nesting activities of Little Egret, operation of well-maintained machinery, careful programming of works and use of noise reduction facilities could be implemented to mitigate noise impacts arising from construction activities such as road widening and road paving. Temporary noise barrier should also be used to reduce the level of noise during construction. Noise impact would be minimised during operation phase as permanent noise barrier has been proposed to be constructed. The use of low noise road surfacing could also reduce the level of noise during operation.	Works Sites / During Construction Phase	Contractor	√				-

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					Des	C	O	Dec	
7.9.4	6.2.4	<p>In order to minimise the impact of construction dust to the vegetation and associated wildlife within and around the proposed Works Area, the following mitigation measures should be implemented:</p> <ul style="list-style-type: none"> <li>regular watering</li> <li>complete coverage of dusty material storage piles</li> <li>the use of minimum practical height for dropping excavated material</li> </ul>	Works Sites / During Construction Phase	Contractor		√			-
7.9.5	6.2.5	<p>Standard good site practice measures should be implemented and should include:</p> <ul style="list-style-type: none"> <li>Placement of equipment in designated Works Areas within the existing disturbed land.</li> <li>Construction activities should be restricted to the proposed Works Area.</li> <li>The proposed Works Area should be reinstated immediately after completion of the works.</li> <li>Open burning on proposed works site is illegal, and will be strictly enforced.</li> <li>Waste skips should be provided to collect general refuse and construction wastes, which should be disposed regularly and properly off-site.</li> <li>Soil contaminated by fuel leaked from construction plants should be removed and treated.</li> </ul>	Works Sites / During Construction Phase	Contractor		√			-

EIA Ref #	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
					Des	C	O	Dec	
7.9.6	6.2.6	<p>To minimise the indirect impacts to the nearby Tuen Mun River Channel, the following mitigation measures should be implemented:</p> <ul style="list-style-type: none"> <li>• Site runoff could be directed towards regularly cleaned and maintained sand traps, silt traps and where appropriate</li> <li>• Oil/grease separators to minimise risk of sedimentation and pollution to the river channel.</li> <li>• Debris and rubbish generated on-site should be collected, handled and disposed properly.</li> </ul>	Works Sites / During Construction Phase	Contractor		√			-
7.9.7	6.2.7	To minimise the chance of bird collision during operation phase, falcon sticker, tinted materials, embedded opaque stripes and superimposed patterns of thin opaque stripes are methods that could be used during the design of noise barrier.	Works Sites / During Operation Phase	HyD	√		√		-
7.9.8	6.2.8	Compensatory planting is recommended as the current roadside plantation must be removed to give way to the works. Species of choice should be composed of similar native species and the felling and planting ratio should be no less than 1:1 ratio in terms of quantity.	Works Sites / During Operation Phase	HyD	√		√		-

# All recommendations and requirements resulted during the course of EIA Process, including ACE and / or accepted public comment to the proposed project.

\* Des - Design, C - Construction, O – Operation, and Dec – Decommissioning



**Appendix A6 Implementation Schedule for Landscape and Visual**

EIA Ref #	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
					Des	C	O	Dec	
<b>Construction Phase</b>									
<b>For the Whole Project</b>									
Table 8.8	7.3.1	CM1 Topsoil, where identified, should be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Works Sites / During Construction Phase	Contractor	√				EIAO-TM
Table 8.8	7.3.1	CM2 Existing trees to be retained on site should be carefully protected during construction.	Works Sites / During Construction Phase	Contractor	√				EIAO-TM
Table 8.8	7.3.1	CM3 Trees unavoidably affected by the works should be transplanted where practical.	Works Sites / During Construction Phase	HyD	√				EIAO-TM
Table 8.8	7.3.1	CM4 Compensatory tree planting should be provided to compensate for felled trees.	Works Sites / During Construction Phase	HyD	√				EIAO-TM
Table 8.8	7.3.1	CM5 Control of night-time lighting.	Works Sites / During Construction Phase	HyD	√				EIAO-TM
Table 8.8	7.3.1	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Works Sites / During Construction Phase	Contractor	√				EIAO-TM
<b>Operational Phase</b>									
Table 8.9	7.3.3	OM1 Aesthetic design of road-related structures, including viaducts, footbridges and noise barriers and enclosure.	Works Sites / During Design and Operation Phases	HyD	√	√	√		EIAO-TM

EIA Ref #	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
					Des	C	O	Dec	
Table 8.9	7.3.3	OM2 Vertical Green Panels and Green Roof to soften the noise barriers and enclosures	Works Sites / During Design and Operation Phases	HyD	√	√	√		EIAO-TM
Table 8.9	7.3.3	OM3 Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Works Sites / During Design and Operation Phases	HyD	√	√	√		EIAO-TM
Table 8.9	7.3.3	OM4 All hard and soft landscape areas disturbed temporarily during construction shall be reinstated to equal or better quality, to the satisfaction of the relevant Government departments.	Works Sites / During Design and Operation Phases	HyD	√	√	√		EIAO-TM

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\* Des - Design, C - Construction, O – Operation, and Dec – Decommissioning

**Appendix A7 Implementation Schedule for Land Contamination**

EIA Ref #	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
					Des	C	O	Dec	
9.8.3	8.2.2	<p>To minimize construction workers' potential contact with the contaminated materials</p> <ul style="list-style-type: none"> <li>The use of bulk earth-moving excavator equipment would minimise construction workers' potential contact with the contaminated materials;</li> <li>Exposure to any contaminated materials can be minimised by the wearing of appropriate clothing and personal protective equipment such as gloves (when interacting directly with suspected contaminated material), providing adequate hygiene and washing facilities and preventing smoking and eating during such activities;</li> <li>Stockpiling of contaminated soil should be avoided as far as possible. If this cannot be avoided, the stockpile of contaminated materials should be segregated from the uncontaminated ones. Moreover, the contaminated materials should be properly covered with waterproof material (e.g. tarpaulin sheet) to avoid leaching of contaminants, especially during rainy season.</li> <li>Vehicles containing any excavated materials should be suitably covered to limit potential dust emissions or contaminated wastewater run-off, and truck bodies and tailgates should be sealed to prevent any leakage during transport or during wet conditions;</li> <li>Only licensed waste haulers should be used to collect and transport any contaminated material to an appropriate disposal site and procedures should be developed to ensure that illegal</li> </ul>	Excavation zones / During excavation	Contractor		√			<p>Waste Disposal Ordinance</p> <p>Waste Disposal (Chemical Waste) (General) Regulation</p> <p>Water Pollution Control Ordinance</p>

EIA Ref #	EM&A Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
					Des	C	O	Dec	
		<p>disposal of waste does not occur;</p> <ul style="list-style-type: none"> <li>Necessary waste disposal permits should be obtained, as required, from the appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap 35), as required;</li> <li>Records of the quantities of wastes generated and disposed of should be maintained; Adequate washing facilities should be provided on site; and</li> <li>In accordance with good construction practice, silt traps should be used to reduce the impact to drainage caused by suspended solids arising from disturbed ground, or any construction materials such as cement and gravel. Groundwater should be disposed of in accordance with the Water Pollution Control Ordinance (Cap 358).</li> </ul>							

# All recommendations and requirements resulted during the course of EIA Process, including ACE and / or accepted public comment to the proposed project.

\* Des - Design, C - Construction, O – Operation, and Dec – Decommissioning